

FIGURE 1

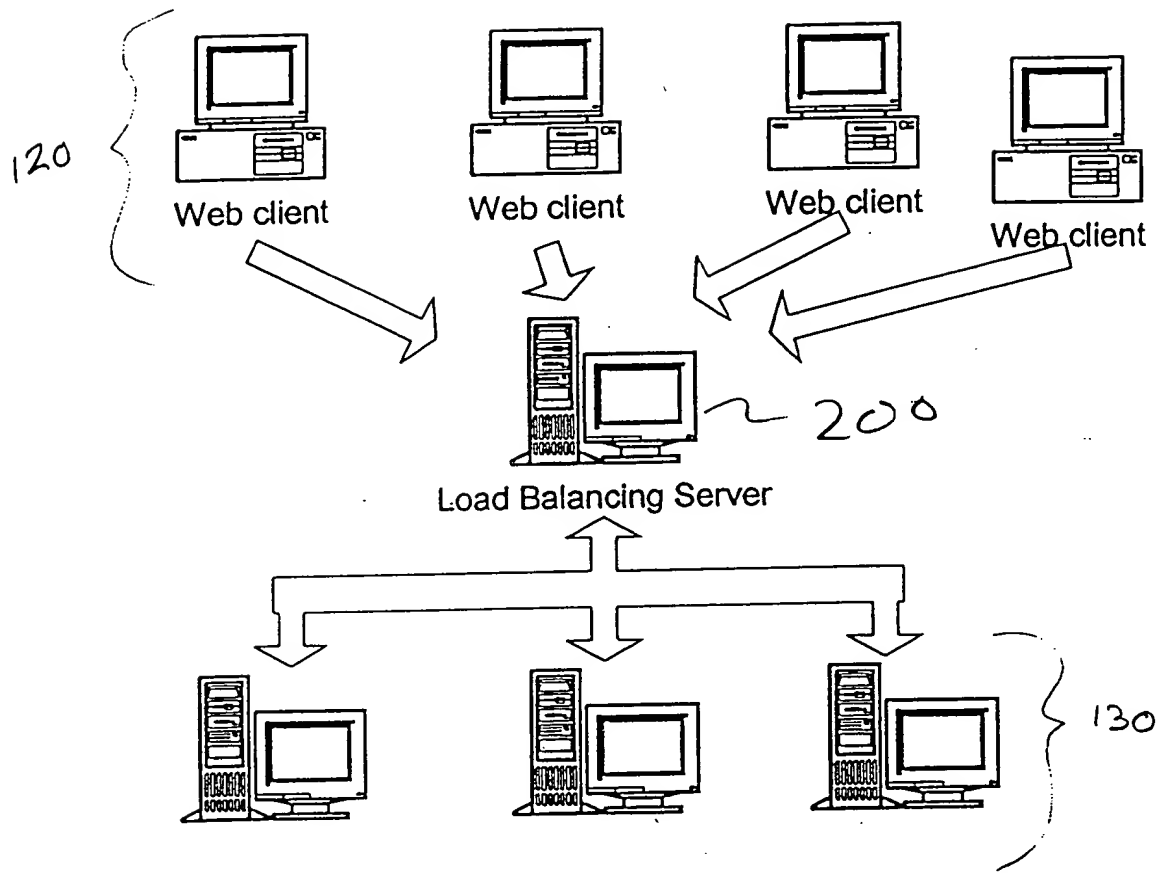


Figure 2 — Machine Scalability Using Load Balancing

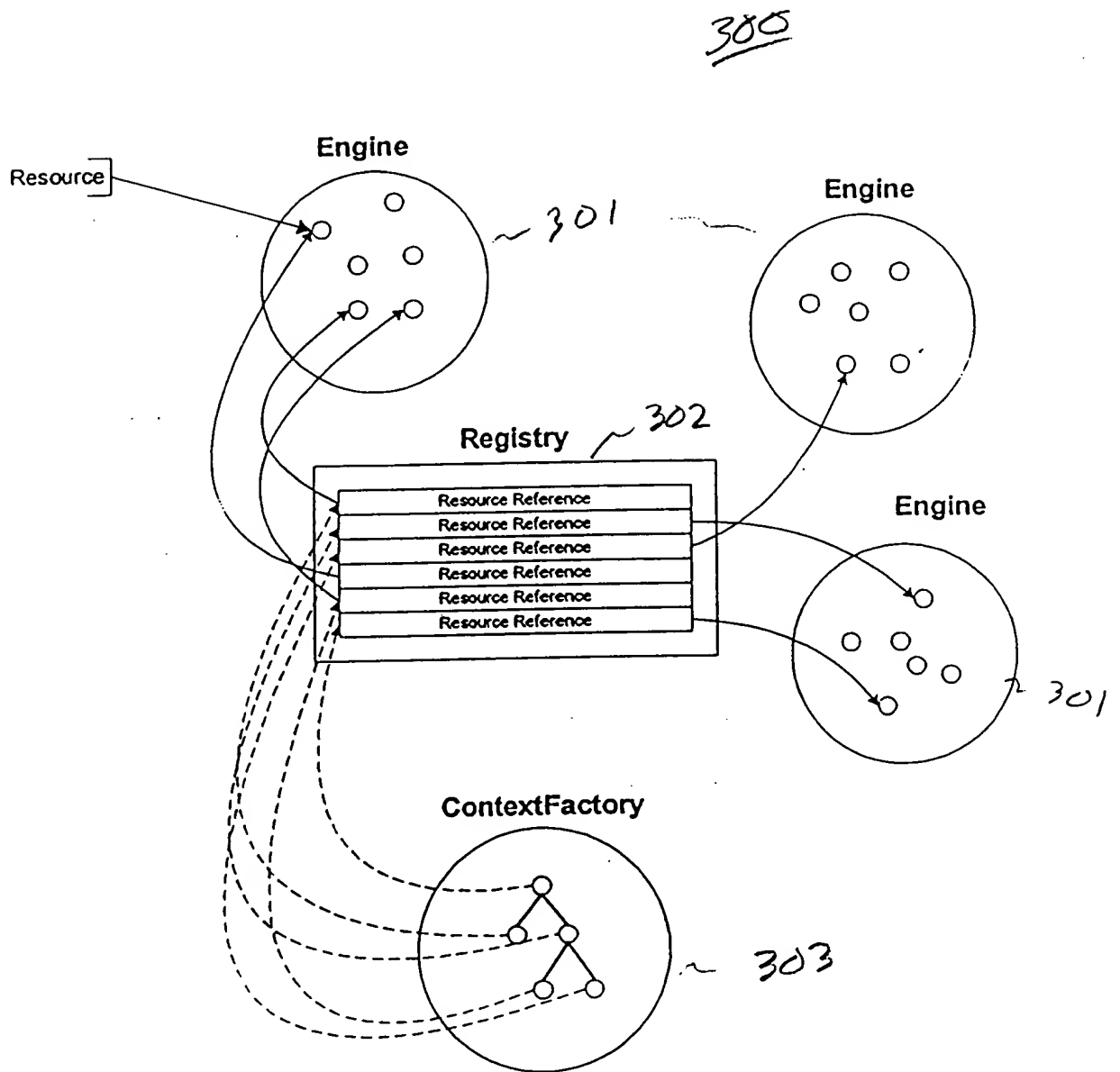


Figure 3 -- Engine/Registry Model

400

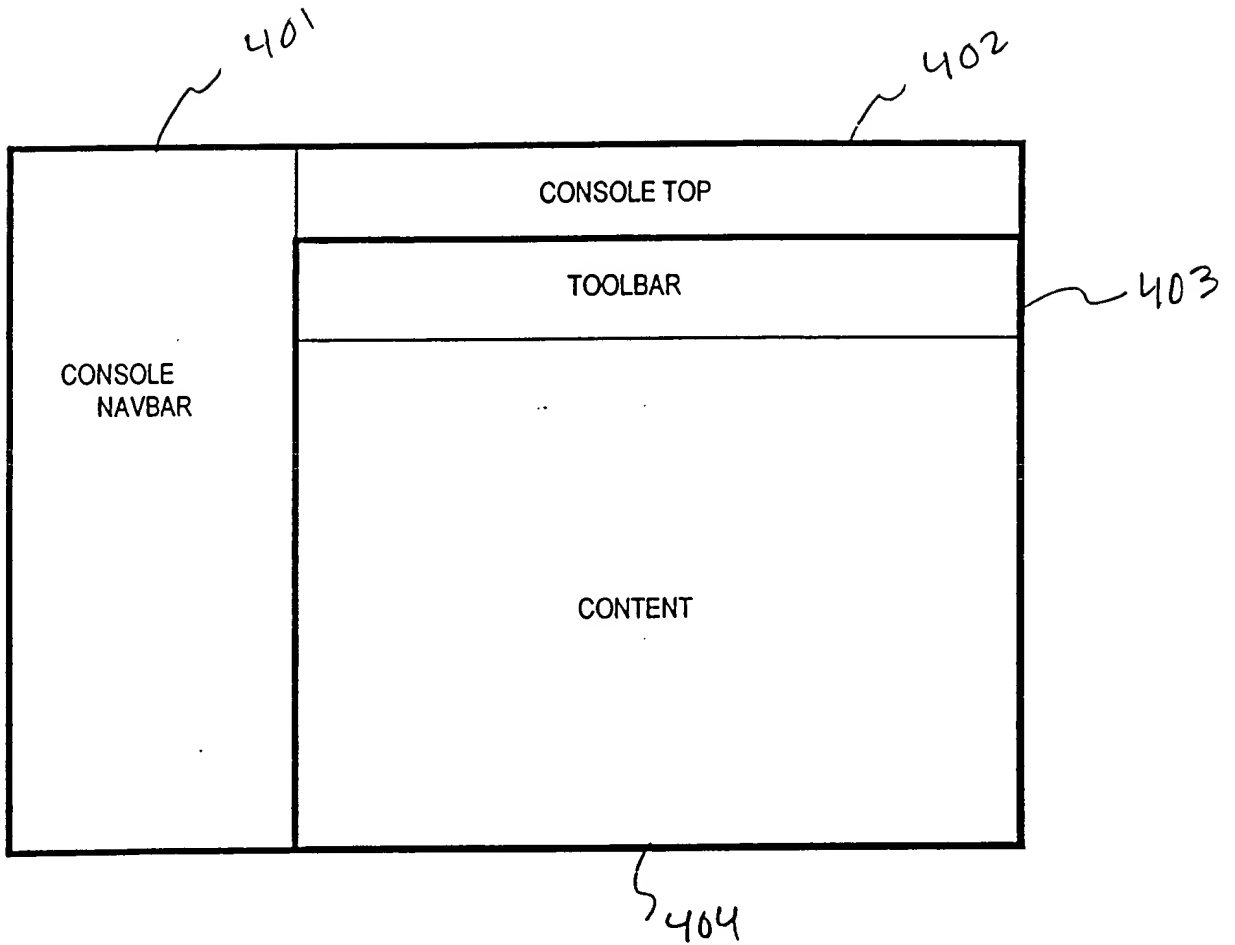


FIGURE 4

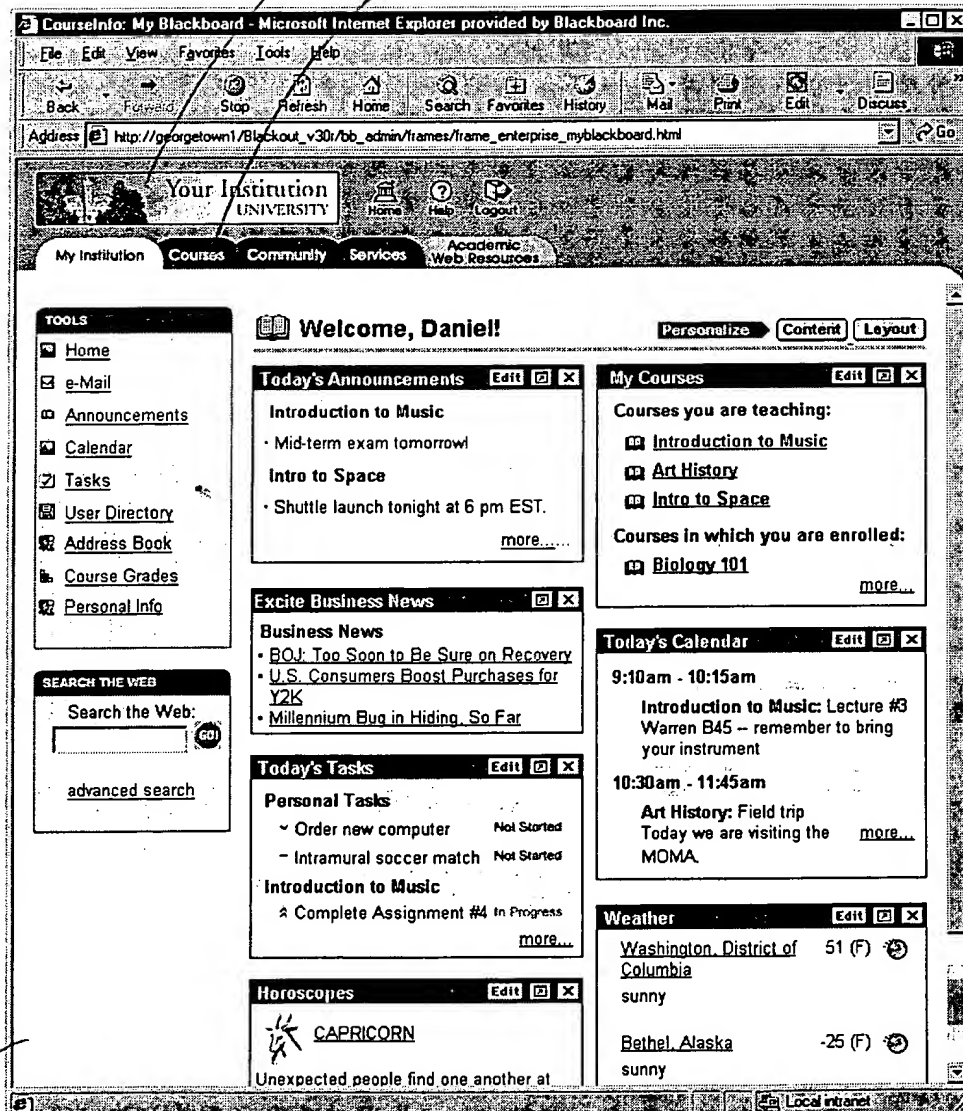


FIG. 5

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address http://georgetown1/Blackout_v30i/bb_admin/frames/frame_enterprise_courses.html Go

Your Institution UNIVERSITY

My Institution Courses Community Services Academic Web Resources

COURSE SEARCH

Search for a course: GO!

[advanced search](#)

OFF-CAMPUS LEARNING

Kaplan
Help prepare for final exams.

Tutornet
Need a tutor, use the virtual chat 24 hour Tutornet service.

eHow
Find out how to do just about anything.

Blackboard.com
Find courses you can take online.

SEARCH THE WEB

Search the Web: GO!

[advanced search](#)

Course List:

Courses you are teaching:

Introduction to Music
Course ID: MUSIC101
Department: Art & Music
Instructor(s): Dr. Lou Pugliese
Online Material: Yes

American History
Course ID: AHIST101
Department: Social Science
Instructor(s): Dr. Chasen
Online Material: Yes

Courses in which you are enrolled:

Accounting 101
Course ID: ACCT101
Section: 2
Department: Business
Instructor(s): Alan Stewart
Online Material: No

Space and Beyond
Course ID: SPACE301
Section: 1
Department: Music
Instructor(s): Laurie Wagnon
Online Material: Yes

Algebra 2
Course ID: ALGEBRA2
Section: 2

Course Catalog:

- Agricultural Sciences & Natural Resources
- Architecture
- Arts & Sciences
- Business Administration
- Division of Continuing Studies
- Engineering & Technology
- Fine & Performing Arts
- Graduate Studies
- Great Plains Veterinary Educational Center
- Human Resources & Family Sciences
- Journalism & Mass Communications
- Law
- Military & Naval Sciences
- Nebraska College of Technical Agriculture - Curtis
- Public Affairs & Community Service
- Special Projects
- Teachers College

[Browse Course Catalog](#)

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FIG. 6

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Address http://georgetown1/Blackout_v30/bb_admin/frames/frame_enterprise_courses.html

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COURSES > INTRODUCTION TO MUSIC

MUSIC101: Introduction to Music

Announcements Course Information Staff Information Course Documents Assignments Communication External Links Student Tools Resources Course Map Control Panel

Introduction to Music

music 101

Music Theory Books
Music Notation
Key Signatures
Time Signatures

Announcements
Posted in the Last Two Weeks

Subject: Course Packets Posted by Rachel
The library has printed an additional 25 course packets. If you have up, please drop by the library and purchase one. They are available!

Subject: Assignment #3 Office Hours Posted by Rachel
Assignment #3 Office Hours have been changed from 2:00-3:00 to 3 B45

Today Last 2 Weeks Last Month All

Course Contents - Microsoft Internet Explorer

Course Contents
(click on any book to expand)

- Course Information
 - Course Information
- Staff Information
 - Staff Information
- Schedule of Classes
 - Schedule of Classes
- Course Documents
 - Course Documents
- Key and Signatures Book
 - Key and Signatures Book
- The Library
 - The Library
- Assignments
 - Assignments
- Links
 - Links
- Communication
 - Communication
- External Links
 - External Links
- Student Tools
 - Student Tools

702

900

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CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

File Edit View Favorites Tools Help

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Address http://blackout.blackboard.com/course/instructor/index.htm

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John Wayne

Music101: Introduction to Music

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music 101

Music Theory Basics
Music Notation
Key Signatures
Time Signatures

Announcements
Posted in the Last Two Weeks

Subject: Class location change
We've moved to room 101
Posted by Fitz McPhaul on May 19, 2000

Subject: Greeting
Welcome MCCD
Posted by Jonathan Goldstein on May 16, 2000

Subject: A new quiz has been posted.
To begin taking the quiz titled NYC7A [click here](#).
Please answer these questions carefully.
Posted by Fitz McPhaul on May 10, 2000

Done

Start poANYWHERE... Inbox - Micro... Exploring - Des... Text on BB... CourseInfo... Fig Q.doc - Mic... 3:37 PM

Document20... Document21... Fig P.doc - Mic... Fig U.doc - Mic... Course Cont...

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

File Edit View Favorites Tools Help

Back Search Favorites History

Address http://blackout.blackboard.com/course/instructor/index.htm

Your Institution UNIVERSITY

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Please check your announcements on a daily basis.
Thanks, Stacey

Subject: Course Map
Welcome to your new course
You can navigate your course by using the map below.
Posted by Jonathan Goldstein on Feb 17, 2000

Course Contents
(click on any book to expand)

- Course Information
- Staff Information
- Course Documents
- Assignments
- Communication
- External Links
- Student Tools

Subject: **WELCOME TO MUSIC 101!**
Use the buttons provided on the left side of your screen to navigate the CourseSite. Begin by clicking the **COURSE INFORMATION** button to view important information before beginning the course.
Posted by Daniel Cane on Feb 8, 2000

Today Last 2 Weeks Last Month All **Show**

Start poANYWHERE... Inbox - Mic... Exploring - D... Text on BB... CourseInfo... Fig Q.doc... Document2... 3:38 PM

Document2... Fig P.doc... Fig U.doc... Course Cont... Fig C.doc... Document2...

FIG. 8

900

Course Contents - Microsoft Internet Explorer provided by Greenberg Training

Course Contents

(click on any book to expand)

- Course Information
 - Course Profile
 - Welcome...
 - Course Roadmap Content
 - The Primary Course Objectives
 - Course Material
 - Course Information
 - Course Profile
 - Course Goals
 - Course Information
- Test Information
- Staff Information
 - Staff: Peter
 - Staff: Catherine
 - Staff: John
- Course Documents
 - Assignments
 - Physics in Music - Multimedia Presentation
 - Mathematics in Music
 - Harmonic Progression
 - Quizzes
- Communication
 - Send Email
 - Discussion Board
 - Student Roster
 - Virtual Chat
 - Student Homepages
 - Group Homepages
- External Links
- Student Tools

902

Start | pcANYWHERE | [S] Index: Mic... | [E] Exploring: D... | [T] Text on BB... | [C] Course Info... | [F] Fig Q.doc... | [D] Document2... | [D] Document2... | [F] Fig P.doc... | [F] Fig U.doc... | [C] Course C... | [F] Fig C.doc... | [F] Fig C.doc... | 13:40 PM

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John Wayne Music101: Introduction to Music

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Assignments

(122)

Current Location: Assignments

Physics In Music - Multimedia Presentation
Link to File
Please view the following video prior to class on Wednesday, February 16. Our class discussion on that day will focus on the intertwining of physics and music. Don't worry though, you don't need to have a physics degree to understand.

Mathematics in Music
Link to File
Please read the attached document and be prepared to discuss it in Friday February 18th's class.

Surveys

Harmonic Progression
Link to File
Please review the attached document for class on Wednesday, February 23.

Quizzes

Click to collapse

Start pcANYW... Inbox: Mi... Exploring... Text on B... Course... Fig Q.doc... Document... Document... 3:43 PM

Fig P.doc Fig U.doc Course C... Fig C.doc Fig C.doc Fig C.doc Acrobat R...

FIG. 10

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Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address http://georgetown1/Blackout_v30r/bb_admin/frames/frame_enterprise_courses.html

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COURSES > INTRODUCTION TO MUSIC MUSIC101: Introduction to Music

Announcements Course Information Staff Information Course Documents Assignments Communication External Links Student Tools Resources Course Map Control Panel

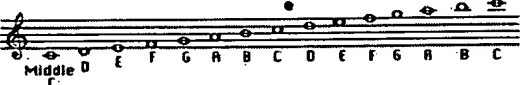
Course Documents [Top]

Current Location: Course Documents

Syllabus [Link to File](#)

Session 1
The major scale, has no sharps or flats associated with any of the notes in the scale. Here is the C major scale in the treble staff.

(to display options for the animation below, move your mouse pointer atop the image and click the right mouse button)



Session 1: Lessons

Session 1: An Atlas of Consonance [Link to File](#)
Please print this document and keep it available for fast review.

Session 2: Music Notation

Done Local intranet

1100

516-11

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

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Address http://black-out.blackboard.com/bin/common/mybb.pl

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Discussion Board 1208

Student Roster 1204

Virtual Chat 1210

Student Pages 1206

Group Pages 1212

2) http://black-out.blackboard.com/bin/common/discussion_board_forum.pl?course_id=Music101

Start poANYWHERE... Inbox - Microsoft... The present inv... Exploring - Man... CourseInfo... Acrobat Reader... 9:13 PM

Text on BB 5.d... Student_Manua... Instructor_Man... Fig E.doc - Mic... Fig G.doc - Mic...

FIG. 12

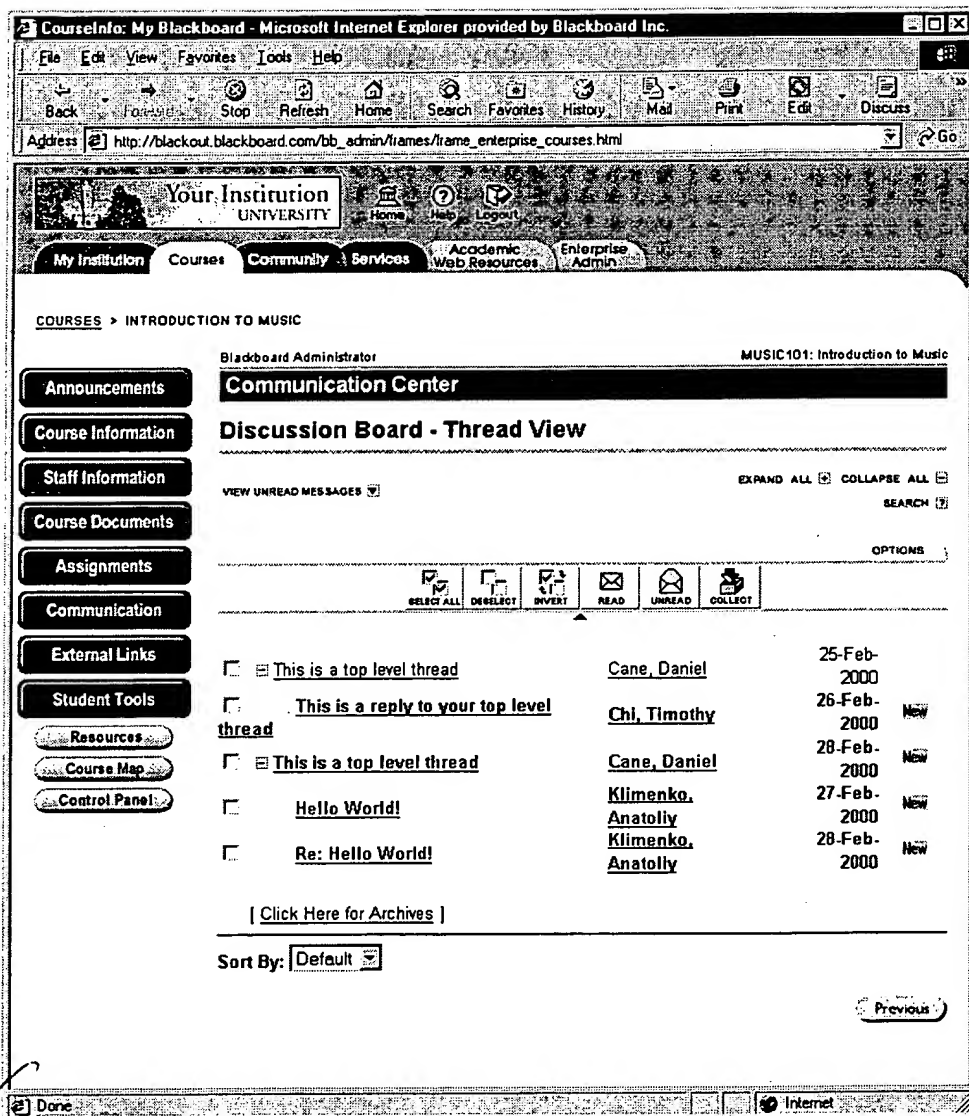


FIG. 13

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Training

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites History

Address http://blackout.blackboard.com/bv/common/mybb.pl

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John Wayne Muslet01: Introduction to Music

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Student Tools

Student Drop Box 1408

Edit Your Homepage 1408

Change Your Information 1404

Student Calendar 1410

Check Your Grade 1404

Student Manual 1412

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Done

Start poANYWHERE... Inbox - Microsoft... The present env... Exploring - Man... CourseInfo: ... Acrobat Reader

Test on BB 5.d... Student_Manua... Instructor_Man...

Internet

5:11 PM

FIG. 14

John Wayne

Music101: Introduction to Music

Student Tools**Student DropBox**

Use your student drop box to submit files to your instructor. Also, your instructor can return your files to you with comments attached.

**Current Files in your DropBox**

Note: If you want to save a file, right click on the Link Name and choose Save Link As

<u>File Name</u>	<u>Link Name</u>	<u>File Size</u>	<u>Status</u>
none	none	none	none

[Remove Files]

**Add File to DropBox**

Click the *Browse* button to select the file to attach from your computer.
Be sure to specify a linkname for your file.

File to Upload:

Name of Link to File:

(Example: *Homework One, Assignment One*)

Browse...**Send File to Instructor**

◀ Back

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

File Edit View Favorites Tools Help

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Address http://blackout.blackboard.com/course/instructor/index.htm

Your Institution UNIVERSITY

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My Institution Courses Community Services Academic Web Resources Enterprise Admin

COURSES > INTRODUCTION TO MUSIC > CONTROL PANEL

MUSIC101: Introduction to Music
Dr. Tim Cane, Instructor

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4300

4302

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4314

4316

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

File Edit View Favorites Tools Help

Back Search Favorites History

Address http://blackout.blackboard.com/course/instructor/index.htm

Your Institution UNIVERSITY

Home Help Logout

My Institution Courses Community Services Academic Web Resources Enterprise Admin

COURSES > INTRODUCTION TO MUSIC > CONTROL PANEL > ANNOUNCEMENTS

Announcements : View Today

[Add Announce](#)

VIEW TODAY [VIEW LAST 7 DAYS](#) [VIEW LAST 30 DAYS](#) [VIEW ALL](#)

Wednesday, March 15, 2000

Permanent: Final Exam has moved!!!!
Due to the leaky roof in Warren B45, we have moved the exam to Hollister B14. The exam still begins promptly at 7pm. [Modify](#) [Remove](#)
Posted by Timothy Chi

Permanent: Final Exam has moved!!!!
Due to the leaky roof in Warren B45, we have moved the exam to Hollister B14. The exam still begins promptly at 7pm. [Modify](#) [Remove](#)
Posted by Timothy Chi

Wednesday, Mar 15, 2000 : New Floods Threaten Mozambique
Two days of heavy rain have disrupted the distribution of food to flooded communities in central Mozambique. The main road from the port of Beira to the small town of Save has again been cut. Helicopters were called in on Tuesday to rescue 30 people and sacks of food from vehicles trapped on the road by flood water. [Modify](#) [Remove](#)
Posted by Dr. Kargatis

Wednesday, Mar 15, 2000 : NCAA: Michigan St, Arizona in First-Day Action
Big Ten Conference champion Michigan State, a Final Four team last season, and Pac-10 winner Arizona are the leading seeds in action when the NCAA Tournament -- and March Madness -- begins Thursday. Michigan State (26-7) is the top team in the Midwest, a region which features Big 12 champion Iowa State, Atlantic Coast Conference runner-up Maryland, Big East regular season co-champion Syracuse, and traditional powers Kentucky and UCLA. Arizona (26-6) earned the top seed in the West region after completing a sweep of Pac-10 co-champion Stanford last week. Big East tournament winner St. John's, Oklahoma, Louisiana State, Texas and Purdue are the top teams in the region. Michigan State, seeking its first national championship since Magic Johnson led the team to a title in 1979, faces 16th-seeded Valparaiso (19-12) Thursday night in Cleveland. The Spartans lost to Duke in last year's Final Four. [Modify](#) [Remove](#)
Posted by Dr. Kargatis

Done Start poANYWHE Inbox - Mic Exploring - D... Text on BB... CourseInf... Fig V.doc Document2... Document2... Fig P.doc Fig U.doc Fig C.doc Fig C.doc Fig C.doc

Internet 3:55 PM

FIG.17

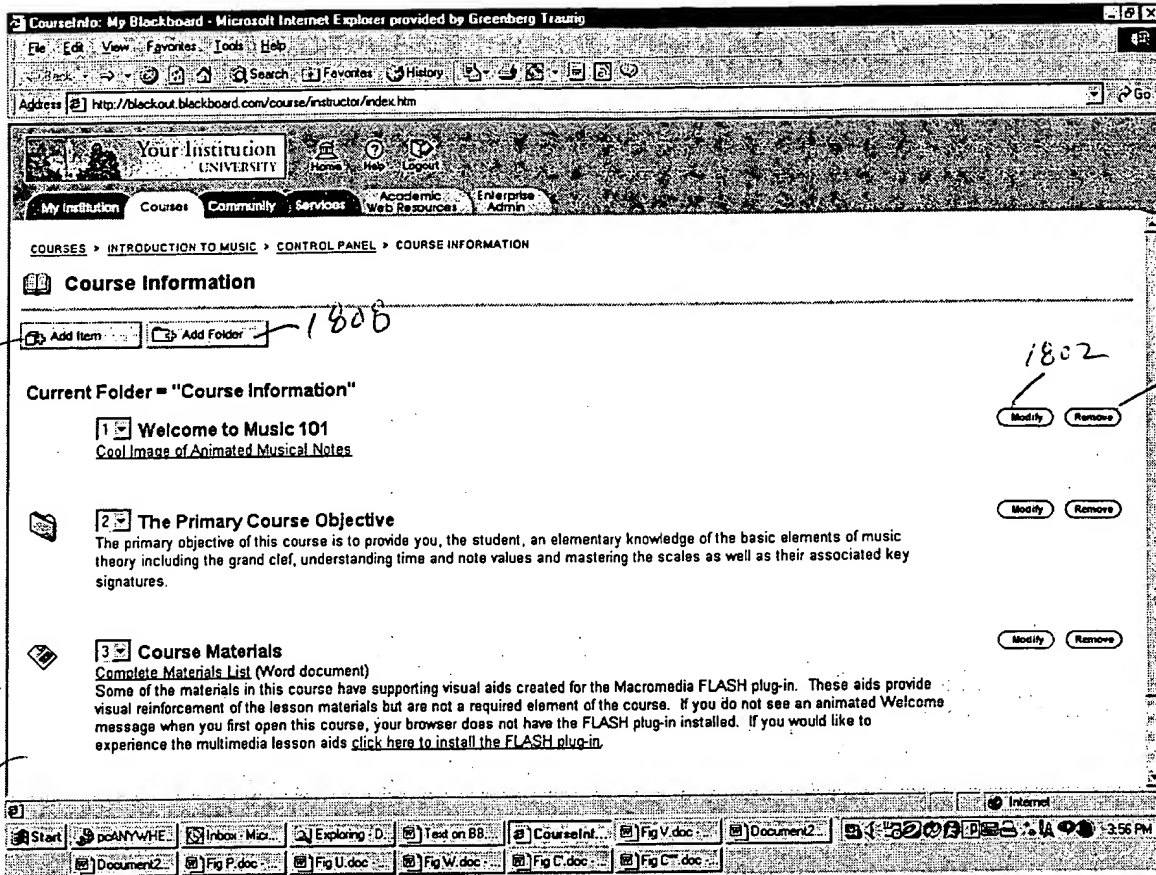


FIG. 18

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg T...
File Edit View Favorites Tools Help
Back Forward Stop Search Favorites History
Address http://blackout.blackboard.com/course/instructor/index.htm
Go

Your Institution UNIVERSITY
Home Help Logout
My Institution Courses Community Services Academic Web Resources Enterprise Admin

COURSES > INTRODUCTION TO MUSIC > CONTROL PANEL > COURSE TASKS

Course Tasks

Add Task 1906

High Priority Low Priority

1902 1904

Complete Tasks Sub-System Due Date: February 25, 2000	Modify Remove
Complete Calendar Sub-System Due Date: February 27, 2000	Modify Remove
Assignment #3 - HTML Design Due Date: February 28, 2000	Modify Remove
Oral Report #2 - Web Graphics Due Date: March 3, 2000	Modify Remove

OK

Start pcANYWHERE Inbox - Mic Exploring - D Test on 88 CourseInfo Fig X.doc Document2 3:37 PM
Document2 Fig P.doc Fig U.doc Fig W.doc Fig C.doc Fig C.doc

FIG 19

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Training

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites History

Address http://blackout.blackboard.com/course/instructor/index.htm

Your Institution UNIVERSITY

Home Help Logout

My Institution Courses Community Services Academic Web Resources Enterprise Admin

COURSES > INTRODUCTION TO MUSIC > CONTROL PANEL > INSTRUCTOR LIBRARY

Instructor Library

Add File Add Folder Add From Institution

Current Folder = "Instructor Library"

- Acrobat Files**
The Library of Congress Online Catalog (<http://catalog.loc.gov/>) is a... recordings, and visual materials in the Library's collections.
- Audio Content**
WebReference is the definitive guide to web development with tutorials on all aspects of
- Images**
...the British Library's Online Information Service This web site has been...
- Other Handouts**
This searchable database of outstanding Internet learning sites categorizes entries by content
- Word Files**
Center Free Newsletters Magazine Library Editorial Calendar Contact our...

Modify Remove

Modify Remove

Modify Remove

Modify Remove

Modify Remove

OK

Start POANYWHERE Waiting Text on BB.5.doc - Micros CourseInfo: My Black...

Internet 11:15 AM

2000

2006 2008 2010

2002 2004

FIG. 20

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

File Edit View Favorites Tools Help

Address http://blackboard.com/course/instructor/index.htm

Your Institution UNIVERSITY

My Institution Courses Community Services Academic Web Resources Enterprise Admin

COURSES > INTRODUCTION TO MUSIC > CONTROL PANEL > DIGITAL DROPBOX

Digital Dropbox

Add File Send File 2102

	Assignment #2 (3254) Submitted by: Daniel Cane Received on: February 25, 2000 9:25am	Remove
	Assignment #2 (1124) Submitted by: Tim Chi Received on: February 24, 2000 8:27pm	Remove
	Assignment #1 (924) Submitted by: Emilio Ramos Received on: February 24, 2000 4:48pm	Remove
	Assignment #3 Draft (12934) Posted on: February 20, 2000	Remove
	Lecture #3 Outline (29454) Posted on: February 09, 2000	Remove

Page: 1 2 3 4 5 (Next >>)

OK

Start poANYW... Inbox - M... Exploring... Text on B... Course... Fig Z.doc... Document... Document... 4:00 PM

Fig P.doc... Fig U.doc... Fig W.doc... Fig C.doc... Fig C.d... Fig X.doc... Fig Y.doc...

Fig. 21

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address http://georgetown1/Blackout_v30r/bb_adminv/frames/frame_enterprise_courses.html Go

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services Academic Web Resources

COURSES > INTRODUCTION TO MUSIC MUSIC101: Introduction to Music

Course Gradebook

Students whose last names begin with: Show All

Items that are grouped by: Show All Go

✓ - completed	Participation	Space,301-c Quiz	Assignment #1	Total Points
- no info	Participation	Quiz	Assignment	
- taken, but ungraded	Edit	Edit	Edit	
Arnold, Jeremy Edit	-	-	-	0
Baggins, T Edit	80	50	50	315
Bell, Norman Edit	-	10	-	10
Cane, Jon Edit	72	25	35	251
Chasen, Michael Edit	-	25	-	25
Chi, Timothy Edit	92	35	50	311
Clark, Andrea Edit	100	20	50	285
Clark, Jim Edit	75	-	50	220
Cox, Meg Edit	-	25	-	25
Davies, Greg Edit	-	-	-	0
witkowski, francis Edit	-	10	-	10
Points Possible	100	35	50	335

Local intranet

2200

FIG. 22

COURSES > INTRODUCTION TO MUSIC > CONTROL PANEL > COURSE STATISTICS > REPORT

**Course Statistics**

Statistics Generated on Thursday, February 24, 2000 11:26:28 AM

Note: You may have to reload/refresh this page for the images to be correct.

Total Number of Accesses per Area — 2302

Number of Accesses over Time — 2304

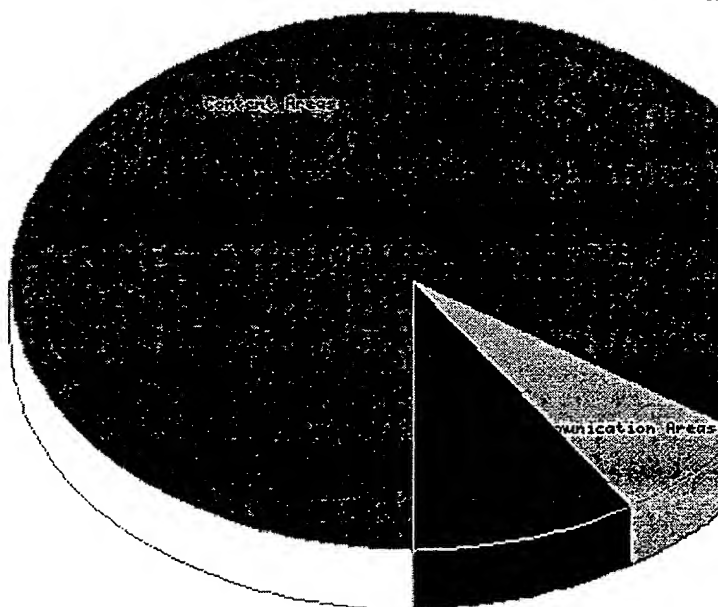
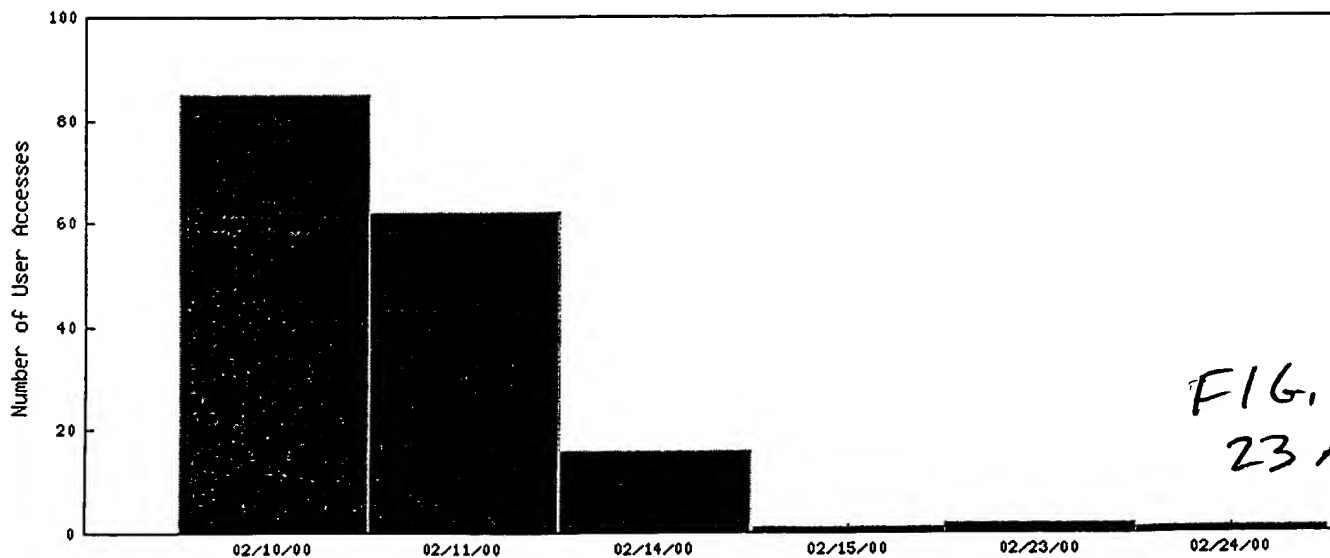
User Accesses per Hour of the Day — 2306

User Accesses per Day of the Week — 2308

Total Accesses by User — 2310

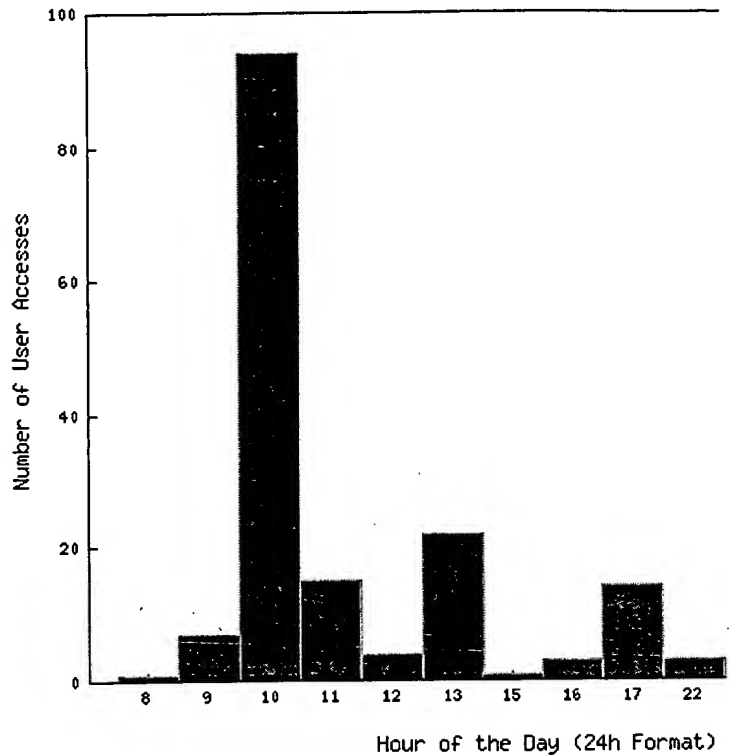
Total Number of Accesses per Area — 2302

Area Name	Hits	Percent
Content Areas	139	83.2 %
Communication Areas	10	5.98 %
Group Areas		0 %
Student Areas	15	8.98 %
Total	167	100 %

**Number of Accesses over Time** — 2304FIG.
23 A

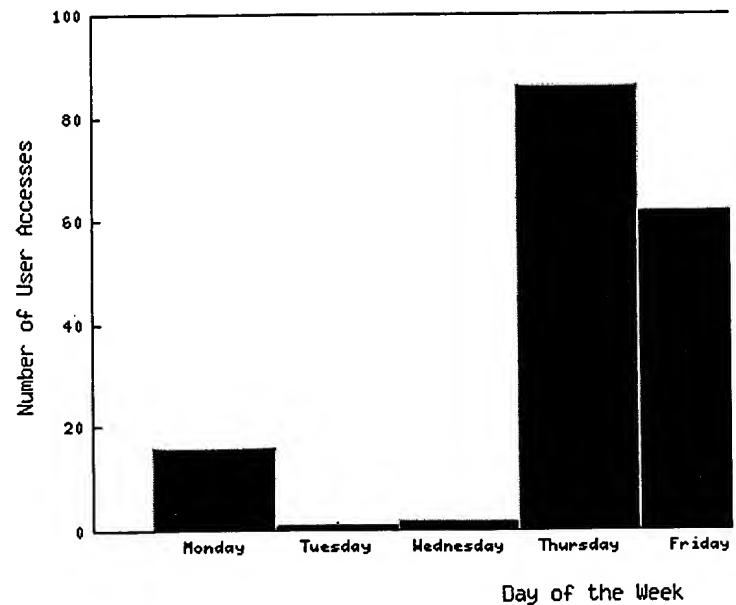
User Accesses by Hour of the Day — 2306

Hour of The Day	Hits	Percent
8	1	0.59 %
9	7	4.19 %
10	94	56.2 %
11	15	8.98 %
12	4	2.39 %
13	22	13.1 %
15	1	0.59 %
16	3	1.79 %
17	14	8.38 %
22	3	1.79 %
23	3	1.79 %
Total	167	100 %



User Accesses by Day of the Week — 2300

Day of The Week	Hits	Percent
Monday	16	9.58 %
Tuesday	1	0.59 %
Wednesday	2	1.19 %
Thursday	86	51.4 %
Friday	62	37.1 %
Total	167	100 %



2300

FIG.
23B

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Training

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites History

Address http://blackout.blackboard.com/bb_admin/frames/frame_enterprise_enterpriseadmin.html

Your Institution UNIVERSITY

My Institution Courses Community Services Academic Web Resources Enterprise Admin

Blackboard 5.0 - Level III - Advance Course & Portal Manager

<p>PORTAL AREAS - 2406</p> <p>My Institution Tab: 2422 Community Tab: 2426 Course Tab: 2424 Services Tab: 2428 Academic Web Tab: The Web Tab</p> <p>SYSTEM TOOLS - 2408</p> <p>Announcements: 2416 Send E-mail: 2416 Institution Calendar: 2412 Institution Tasks: 2414</p> <p>ENTERPRISE TOOLS - 2410</p> <p>Institutional Library: 2418 Web E-mail Mgmt: 2420 Advanced Domain Mgmt: 2422</p> <p>SYSTEM OPTIONS - 2412</p> <p>Gateway Options: 2424 Institution Properties: 2430 System Settings: 2426 Colors and Images: 2432 System Statistics: 2428 Course Marketing: 2434</p>	<p>COURSE & COMMUNITY MANAGEMENT - 2414</p> <p>Create Course: 2436 Create Organization: 2444 Manage Courses: 2438 Manage Organizations: 2446 Course Utilities: 2446 Organization Utilities: 2448 Course Catalog: 2442 Organization Catalog: 2452</p> <p>USER MANAGEMENT - 2416</p> <p>Create User: 2452 Manage Users: 2454 User Utilities: 2456</p> <p>E-COMMERCE - 2418</p> <p>Sponsorships: 2458 Partnership Program: 2460 Course E-Commerce: 2462</p> <p>ASSISTANCE - 2420</p> <p>Online Support Site Online Admin Manual Email Blackboard Support</p>
--	--

Start poANYWHERE Wal... Inbox: Microsoft Out... Exploring: Desktop... Text on 88.5.doc... CourseInfo: My... 3:02 PM

Fig Q.doc: Microsoft... Document20: Micro... Document21: Micro...

FIG. 24

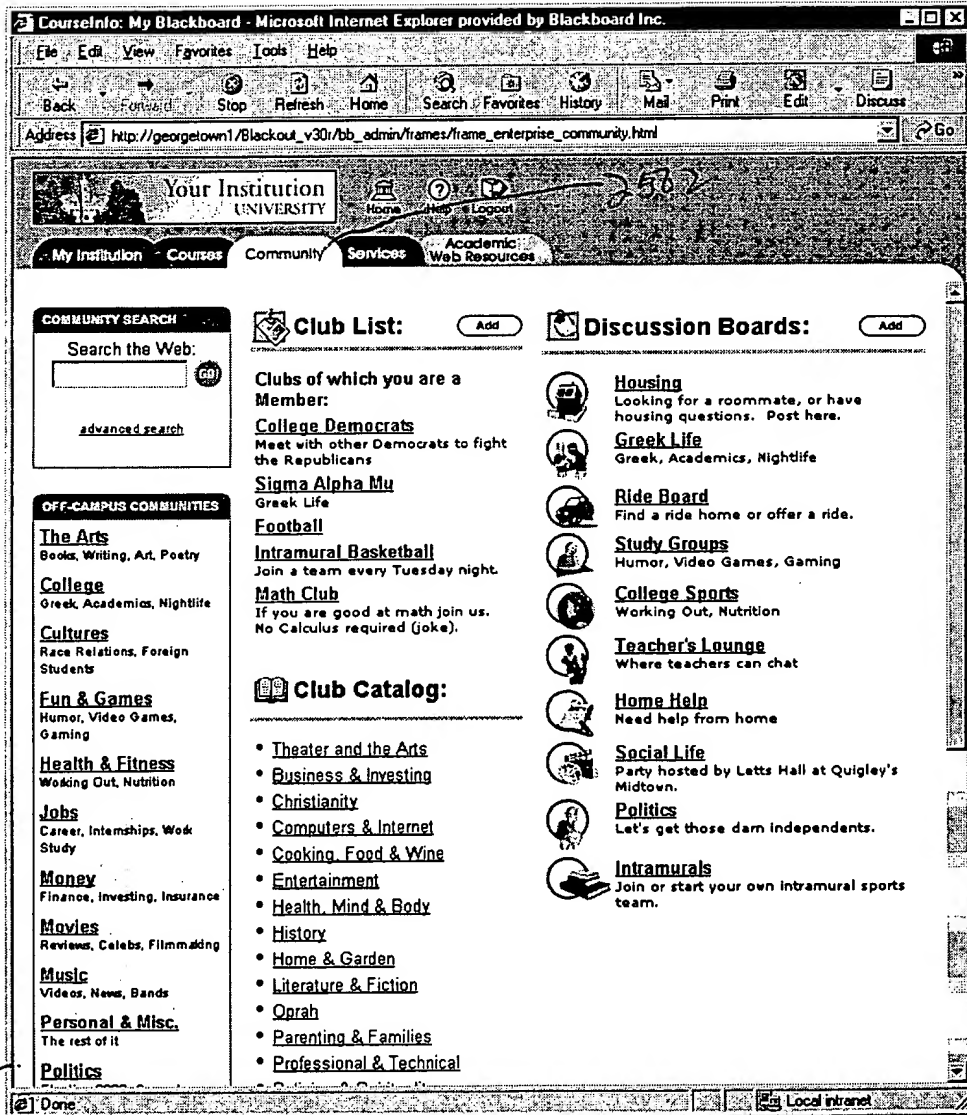
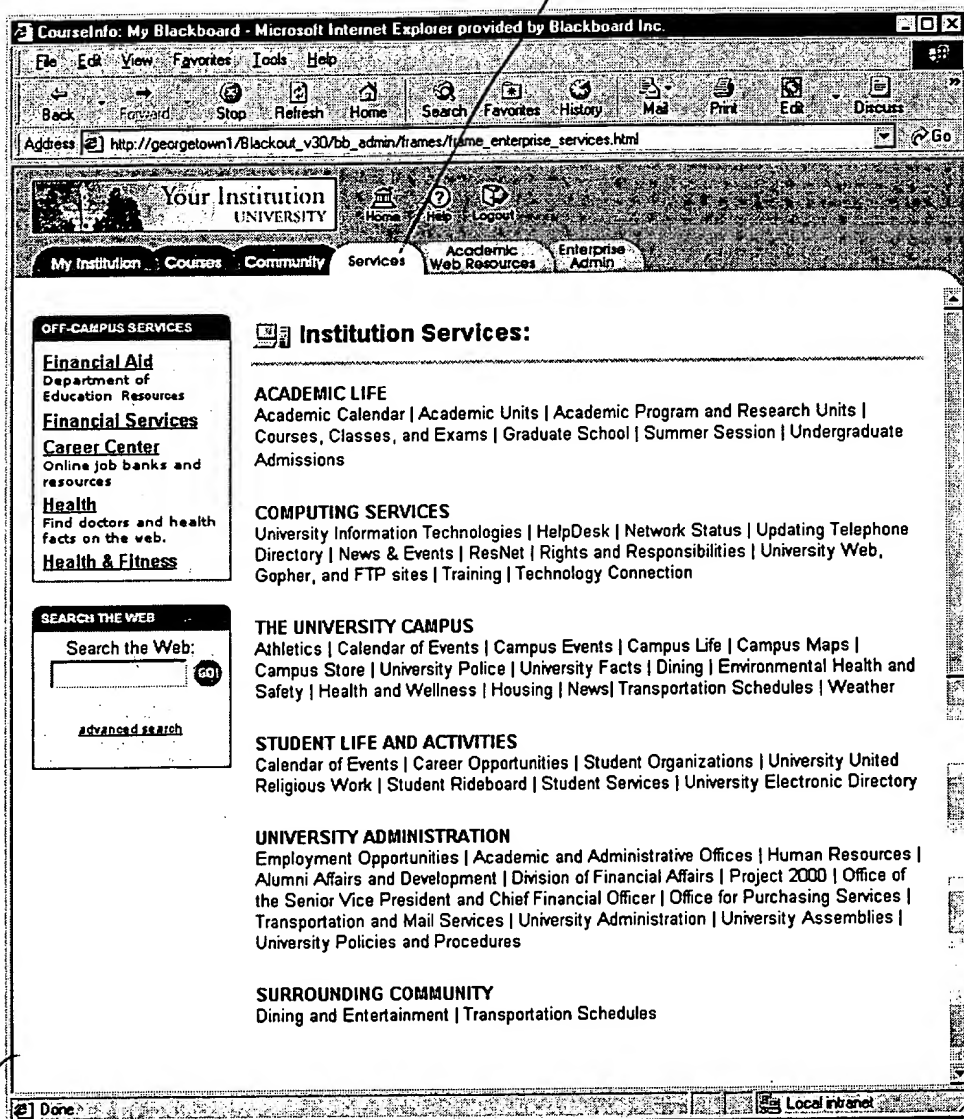
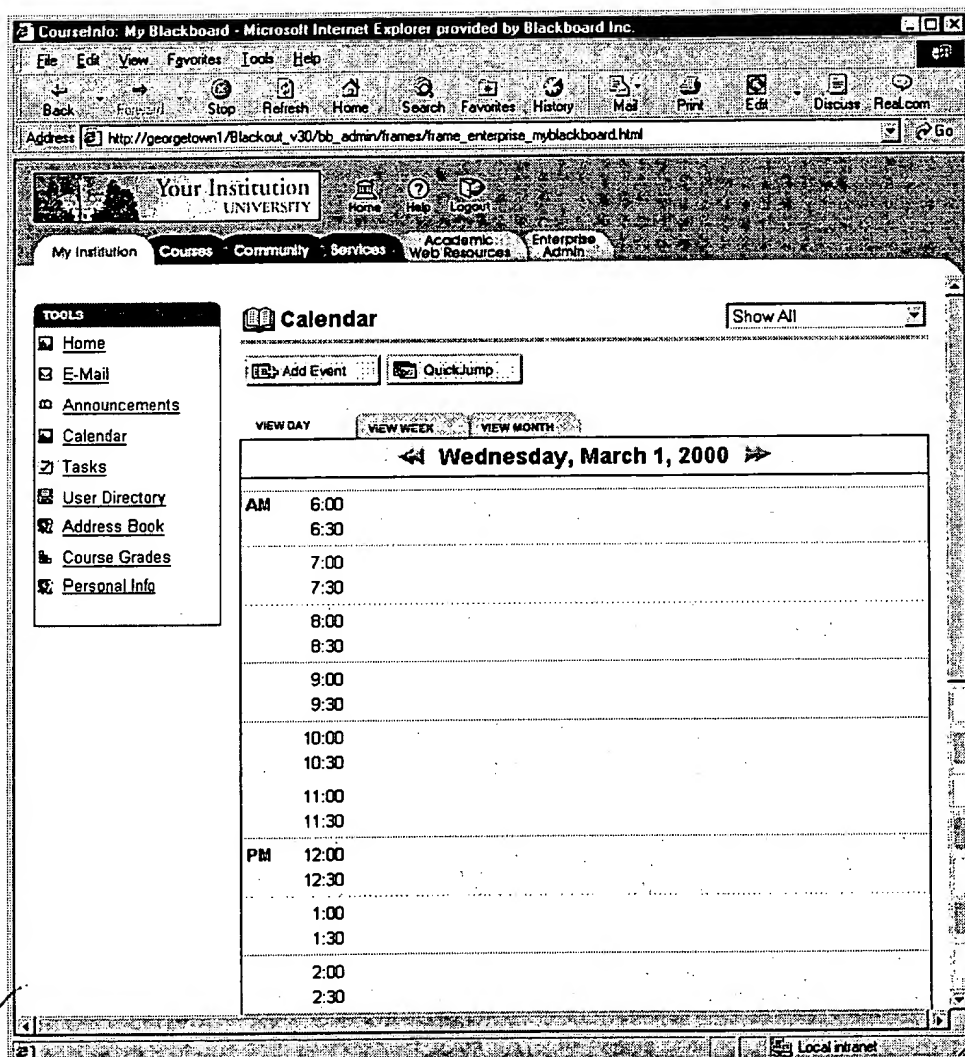


FIG. 25



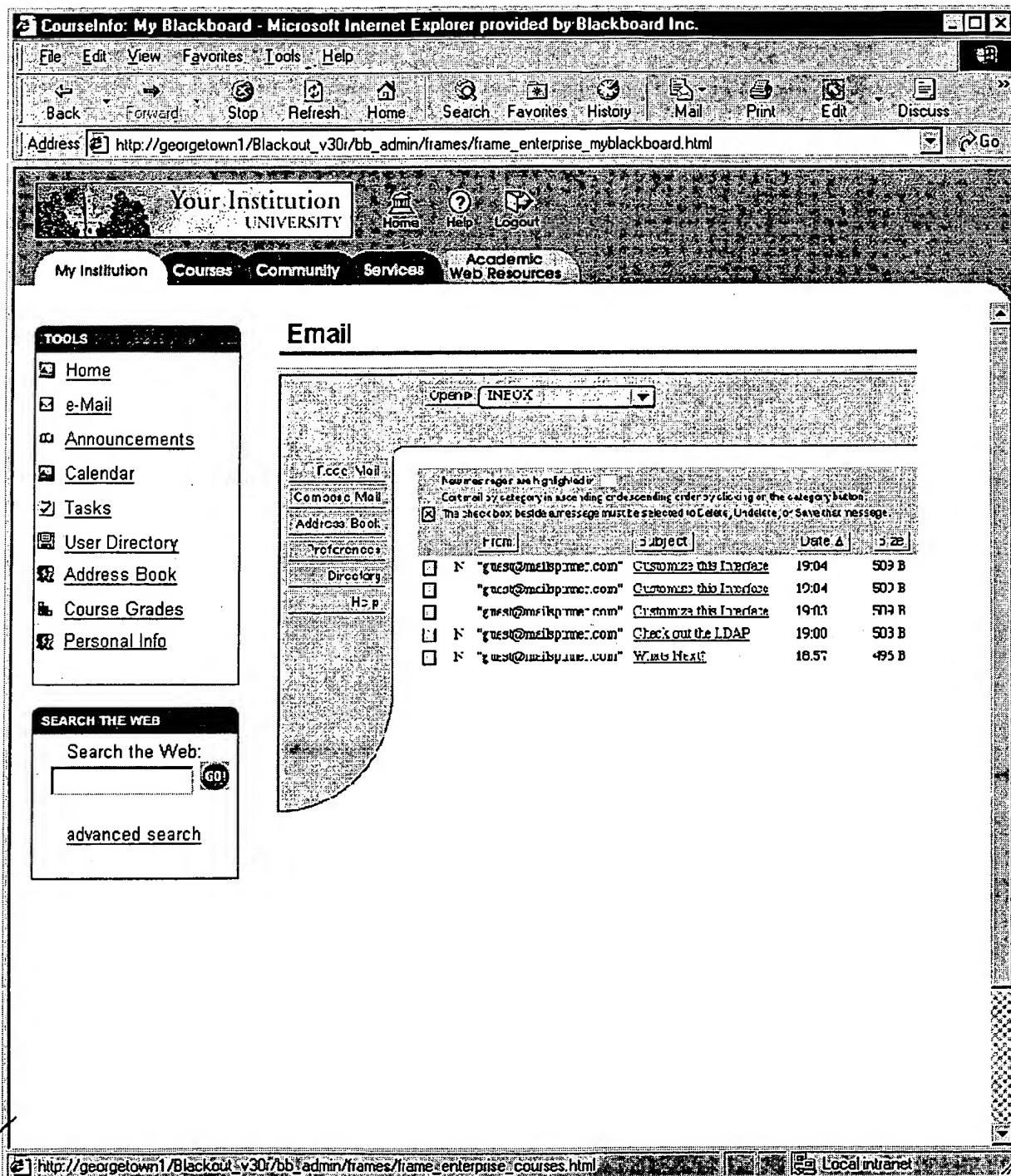
2600

FIG. 26



2700

FIG. 27



Course Info: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

Address: http://blackout.blackboard.com/bb_admin/frames/frame_enterprise_enterpriseadmin.html

Your Institution UNIVERSITY

My Institution Courses Community Services Academic Web Resources Enterprise Admin

ADMINISTRATION PANEL > CREATE NEW COURSE

Create A New Course

- #### 1 Course Information

Course Name:

Course ID:

Description:
- #### 2 Course Design

Button Type:

Button Shape: ☒ Rectangular ☐ Rounded Ends ☐ Rounded Corners

Button Style:
- #### 3 Course Options

Select Type:

Subject Area:

Discipline:

Guest Access: ☐ Guests are allowed to visit this course. ☐ Guests are not allowed to visit this course.

2900

Course Info: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

Address: http://blackout.blackboard.com/bb_admin/frames/frame_enterprise_enterpriseadmin.html

Your Institution UNIVERSITY

My Institution Courses Community Services Academic Web Resources Enterprise Admin

Guest Access: ☐ Guests are allowed to visit this course. ☐ Guests are not allowed to visit this course.

Available: ☐ Yes ☐ No

Select Course Catalog Category:

Course Cartridge (optional): Please enter your Course Cartridge Access Key:

If you don not have an Access Key, please visit <http://cartridges.blackboard.com> to locate a Course Cartridge.

Instructor: ☐ Instructor ID: [List Users](#) ☐ Create New Instructor

4 Submit

Click "Submit" to finish. Click "Cancel" to end this process.

2900

FIG. 29

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites History

Address http://blackout.blackboard.com/bb_admin/frames/frame_enterprise_enterpriseadmin.html

Your Institution UNIVERSITY

My Institution Courses Community Services Academic Web Resources Enterprise Admin

ADMINISTRATION PANEL > CREATE USER

Create User

1 Personal Information

First Name:

Middle Name:

Last Name:

E-mail:

Student ID:

2 Account Information

User Name:

Password:

Verify Password:

3 Other Information

Start poANYWHERE Wa... Inbox - Microsoft Out... Exploring - Desktop... Text on 88.5.doc... CourseInfo: My... 3:18 PM

Fig Q.doc - Microsoft... Document20 - Micro... Document21 - Micro... Fig P.doc - Microsoft... Fig S.doc - Microsoft...

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites History

Address http://blackout.blackboard.com/bb_admin/frames/frame_enterprise_enterpriseadmin.html

Your Institution UNIVERSITY

My Institution Courses Community Services Academic Web Resources Enterprise Admin

Gender: ☒ Male ☐ Female

Birthday: January 1, 1976

Education: Undergraduate Student

Company:

Department:

Job Title:

Address:

Address (cont):

City:

State / Province:

Zip / Postal Code:

Country:

Web Site:

Home Phone:

Work Phone:

Start poANYWHERE Wa... Inbox - Microsoft Out... Exploring - Desktop... Text on 88.5.doc... CourseInfo: My... 3:18 PM

Fig Q.doc - Microsoft... Document20 - Micro... Document21 - Micro... Fig P.doc - Microsoft... Fig S.doc - Microsoft...

FIG.
30A

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

File Edit View Favorites Tools Help

Back Search Favorites History

Address http://blackout.blackboard.com/bb_admin/frames/frame_enterprise_enterpriseadmin.html

Your Institution UNIVERSITY

Home Help Logout

My Institution Courses Community Services Academic Web Resources Enterprise Admin

Work Phone:

Work Fax:

Mobile Phone:

4 Role and Availability

Primary Institution Role:

Administrative User Role:
If you would like user to have an administrative role, please select the role:
(Note: Administrative Access grants the user access to the System Administration Control Panel)

☒ None ☐ System Admin ☐ System Support
☐ Course Creator ☐ Account Administrator

5 Submit

* - Required Field for Form Entry

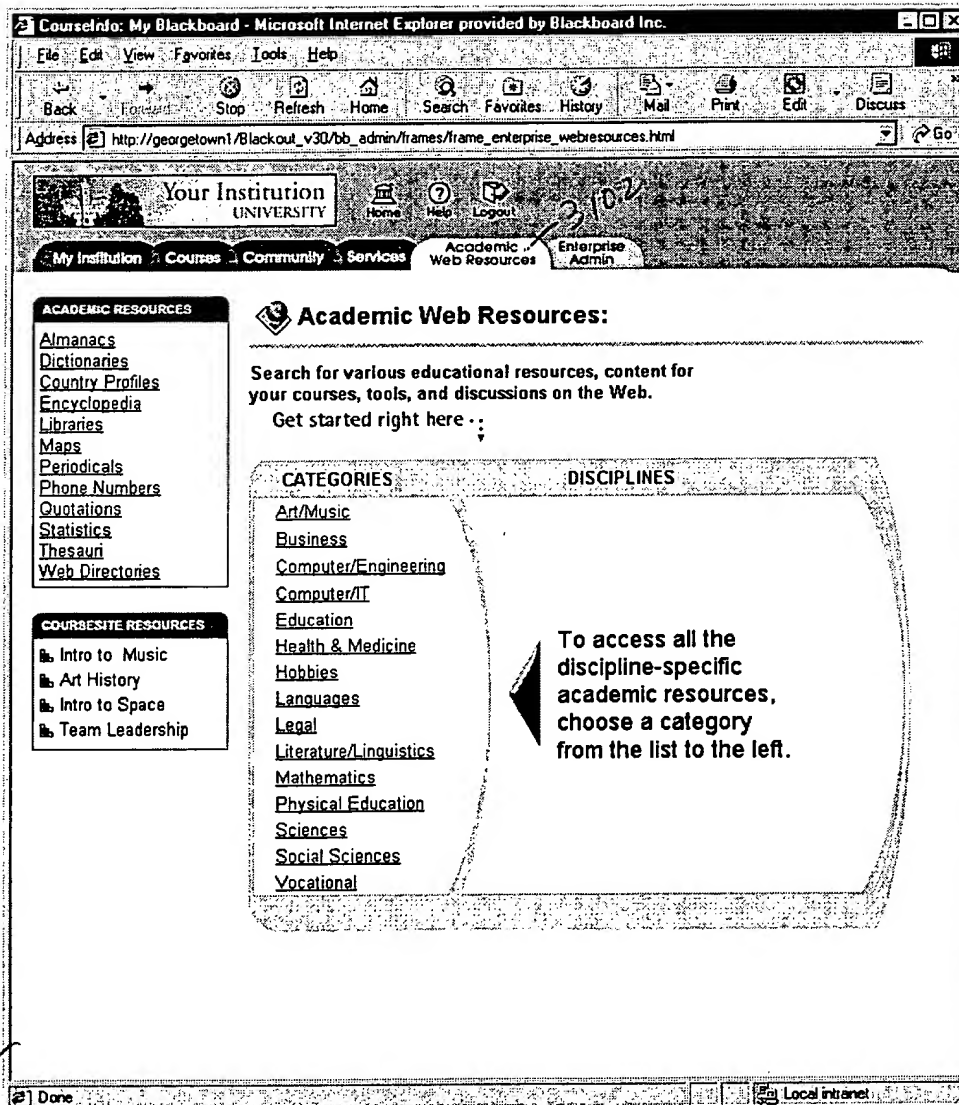
Click "Submit" to finish. Click "Cancel" to end this process.

Cancel Submit

Start poANYWHERE Wa... Inbox - Microsoft Out... Exploring - Desktop... Text on BB.S.doc... CourseInfo: My... 3:19 PM

Fig Q.doc - Microsoft... Document20 - Micro... Document21 - Micro... Fig P.doc - Microsoft... Fig S.doc - Microsoft...

FIG 30B



CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address http://georgetown1/Blackout_v30/bb_admin/frames/frame_enterprise_webresources.html Go

Your Institution UNIVERSITY

Home Help Logout

My institution Courses Community Services Academic Web Resources Enterprise Admin

Social Sciences and Social Study : History

News ?

Vietnam Starts Marking 1975 Battle Victories
 Mar 10 - The Washington Times
 HANOI - Vietnamese started celebrating yesterday the 25th anniversary of the victory of communist troops in the key town of Ban Me Thuot - a battle that marked the beginning of the end of the Vietnam War. [FULL STORY](#)

U.S. must support democracy - not just the military - in Colombia
 Mar 10 - The Washington Times
 The March 7 article "Homes, land abandoned as civil war continues" makes reference to how Colombia's civil war between leftist guerrillas and government security and paramilitary groups has expanded to the point where noncombatants are being affected. [FULL STORY](#)

F16s needed
 Mar 10 - The Dominion
 The RNZAF needs the most modern aircraft available to maintain the skills necessary for its attack and strike capability, not only for defence but to assist our close allies. [FULL STORY](#)

Reunion plain sailing
 Mar 10 - Waikato Times
 A perfect landing started a perfect reunion when World War II pilot Dusty Miller watched an immaculately rebuilt 1940 Hawker Hurricane touch down at Wanaka Airport yesterday. [FULL STORY](#)

Poor site testing 'threatens heritage'
 Mar 10 - The Irish Times
 Archaeological treasures in the Republic are at risk of being destroyed because of inadequate site-testing by archaeologists, according to a report published yesterday.

Research Center ?

Periodical Search:
 go!

☒ [Boolean Search](#)
☐ [Natural Language Search](#)

☒ Search all articles
☐ Search only this discipline

Browse by Topic:
[Early National Period](#)
[Great Depression](#)
[Jacksonian America](#)
[Labor Movement](#)
[The Cold War](#)
[Vietnam War](#)
[World War I](#)
[World War II](#)

Web Search:
 go!

Communities ?

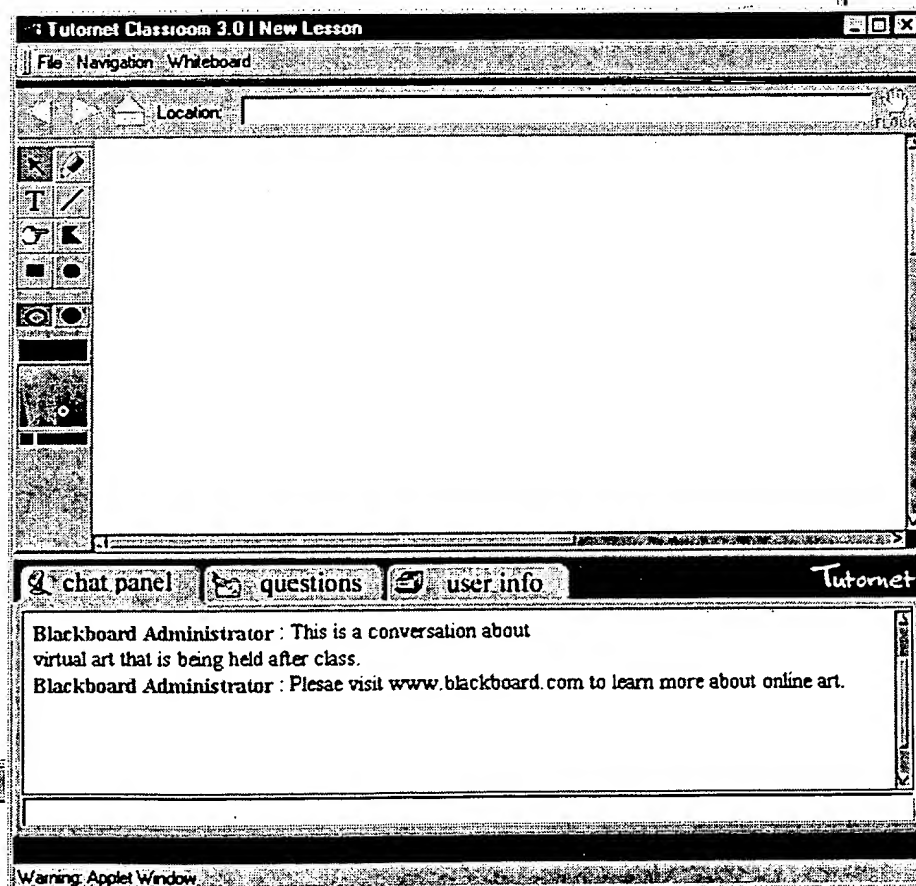
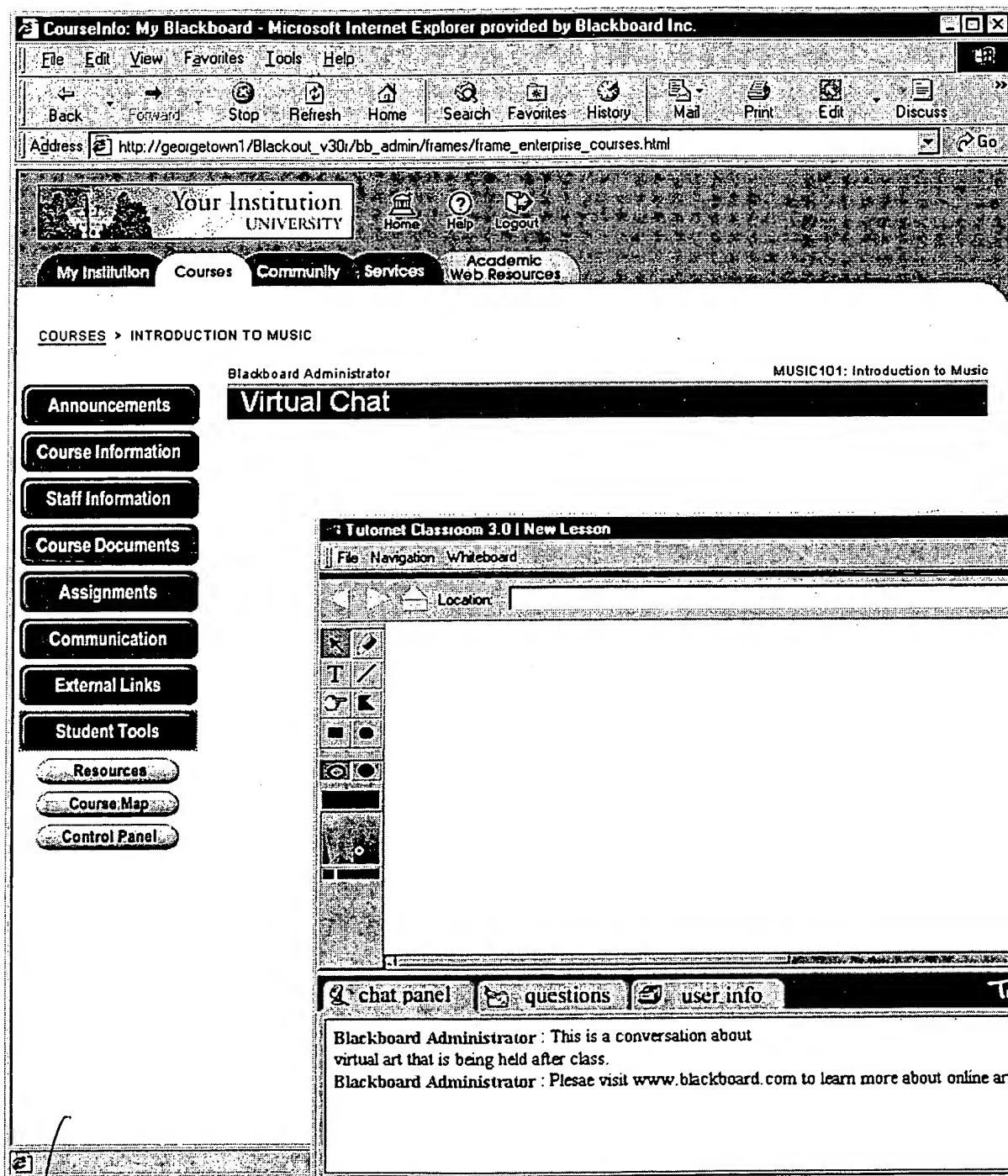
Social Sciences and Social Study for Students

☒ [Discussion Boards](#)
[Learn about my civilization](#)

Done Local intranet (Mixed)

3200

FIG. 32

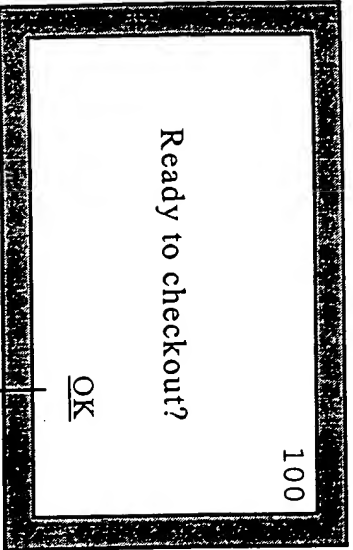


3300

Linking to the E-Commerce Server

Myserver.blackboard.com

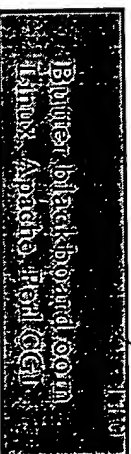
black 123 ?



The link to butter passes the following information:

name: Name of the purchaser
address_1
address_2
city
state
zip
country
price: price in USD that the user is being asked to pay
order-id: null if butter should generate an order number (default)
order-descr: Text description of what the user is buying.
url: the location the referring server that butter should return the user to after the payment process is complete

hyperlink



Figure

34

Attorney Docket Number: 27578.012500

First E-Commerce Screen Display

Butter.blackboard.com

Blackboard.com
About Blackboard.com · Help & Support · Home

Payment Information

The fourth step is to fill in the required payment information and click **Purchase**. After a few seconds, you will be given a receipt confirming your payment. Please note that Blackboard.com uses a secure connection for its online transactions, so there is no need to worry about entering your credit card number online.
Prices listed below are in United States dollars.

Purchase Summary	
Chosen Services:	Registered Course: asd4sdasdc232340— (\$100)
Purchase Number:	9912100110462
Total Price:	\$100.00

Credit Card Information

Card Type: **MasterCard**

Card Number:

Expiration Date: (mm/yy)

Name as it appears on card:

Billing address:

City:

State or Province:

Zip / Postal Code:

Country:

Purchase

(Please be patient. It may take up to one minute to process your credit card.)

Accepts VISA, MC, Diner's Club, JCB and Carte Blanche (but not Amex)

Whatever user info is available is populated from the data passed from the previous page.

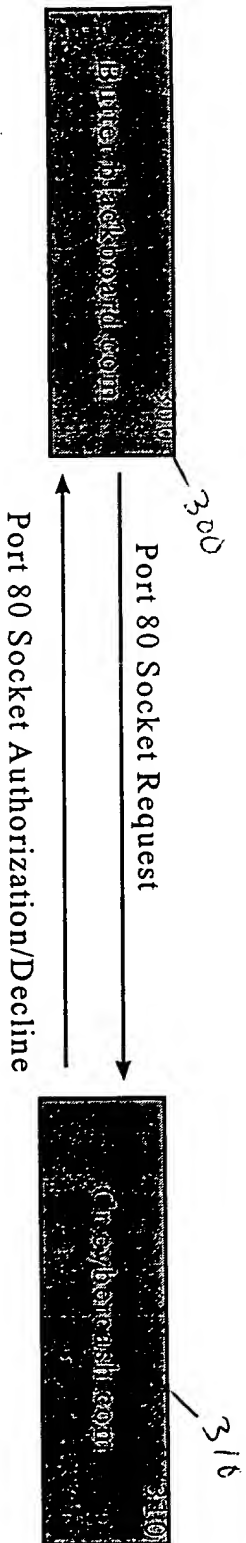
The unique order number displayed is dynamically generated by the server.

The Chosen services and price displayed are passed in from the previous screen.

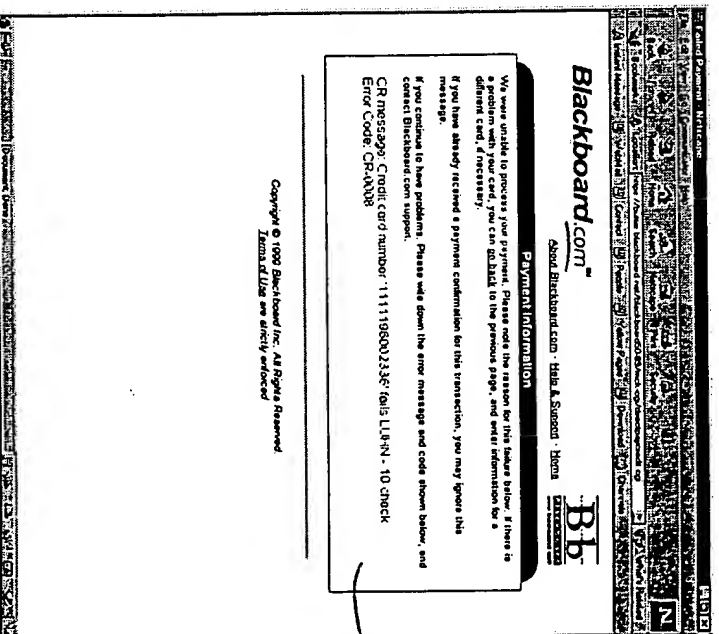
The look and feel of this plate (and all butter e-commerce pages) can be modified by an HTML template. This template is selected as one of the script parameters.

Figure

Authorization Process



- The authorization process takes a minute or so.
- If the card is rejected, a page like the one at right is displayed.
- If the card is accepted, the payment goes through, and the page on the next slide is shown.



Figure

Second E-Commerce Screen Display

Butter.blackboard.com

The screenshot shows a web browser window with the address bar displaying "http://www.blackboard.com". The page title is "Payment Confirmation - Blackboard.com". The main content area has a black header with "Blackboard.com" in white. Below the header, there is a "Payment Information" section with a "Thank you for your payment" message. To the right of this message is a "Confirmation Details" table. Below the table is a "YOU MUST CLICK HERE TO RECEIVE THE SERVICES YOU PURCHASED" link. At the bottom of the page, there is a copyright notice for 1999 Blackboard Inc.

Confirmation Details	
Chosen Service:	Registered Course: s27578012500
Purchase Number:	8912100110062
Order Code:	8912100110062
Order Price:	1000

[YOU MUST CLICK HERE TO RECEIVE THE SERVICES YOU PURCHASED](#)

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Payment is authorized and queued at Cybercash, Inc for processing.

The payment will go through and appear in Blackboard's Cybercash account within 12 hours.

There is no way that the user can back out at this point without Blackboard issuing a manual refund.

No services are provided yet. The user must follow the link at the bottom of the page, or he will receive nothing for his money.

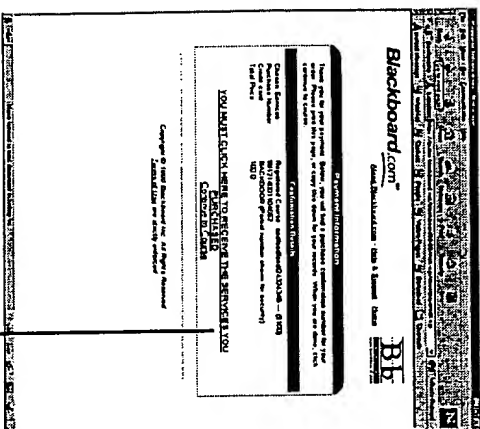
All links on this page are disabled except the one that says "YOU MUST CLICK HERE". This prevents users from failing to get their orders filled.

A authorization code is calculated by the script as a secure hash of the purchase price, the order id, and a secret number.

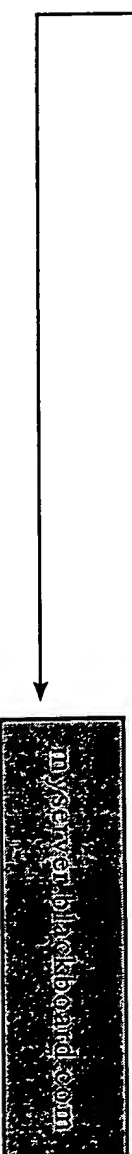
Figure 2

Returning to the Originating Server

Butter.blackboard.com



- The link at the bottom of the page points back to the referring server using the location passed in the URL parameter to the first butter script.
- The authorization code, the order_id and a subset of the credit card digits (show_card) are passed back as parameters.
- The authorization code should be checked upon return by making an identical hash calculation. If the two hash values match, the order should be fulfilled, otherwise, and error should be shown.



Figure

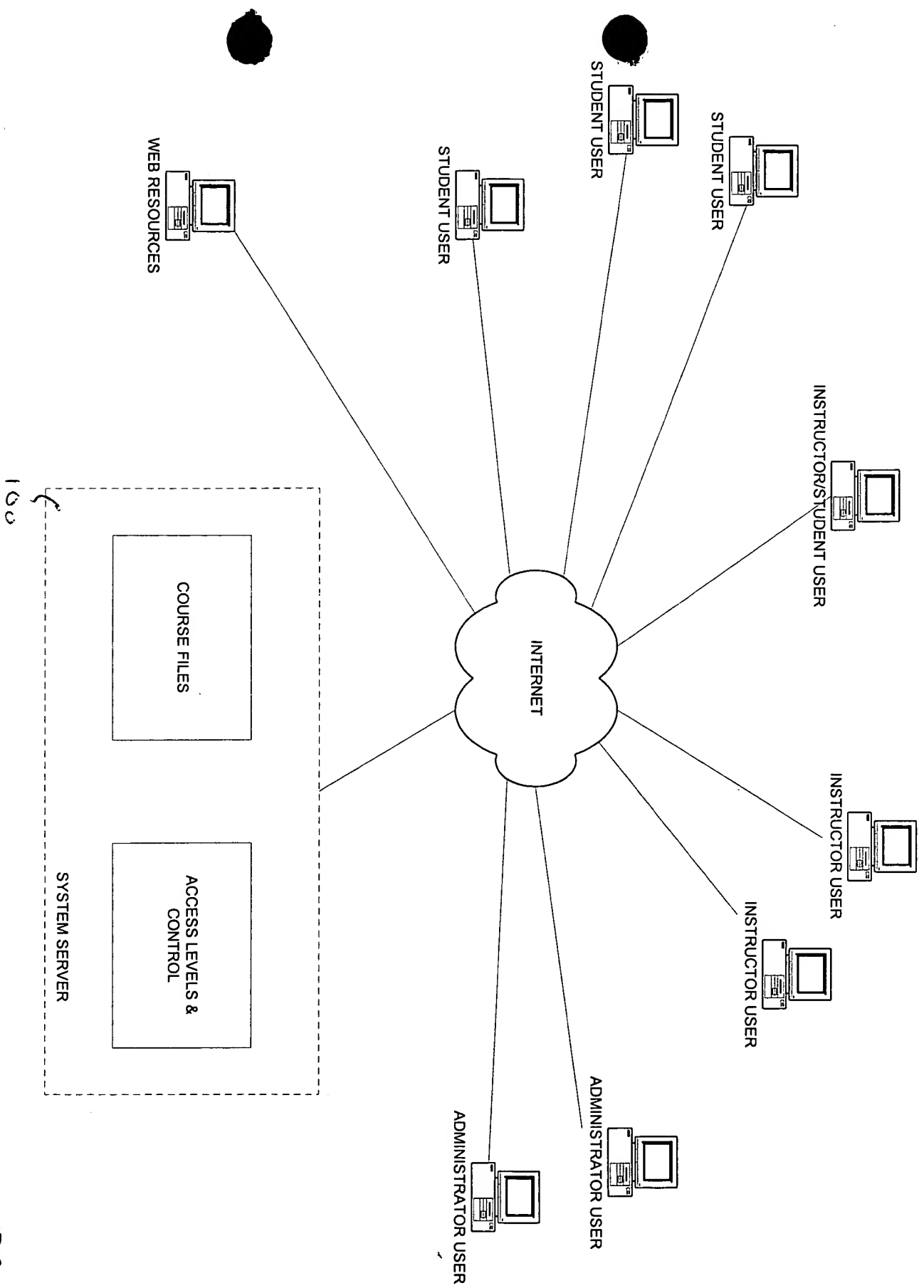


FIG. 39

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